

**Board Research Initiative
Request for Proposals**

Salmonella and Campylobacter Control and Mitigation Strategies in Chickens and Turkeys

Background

The poultry industry has seen many changes in production and processing over the last century, but food safety issues and outbreaks associated with Salmonella and Campylobacter continue to persist. Research is needed to develop effective and practical prevention, intervention and control strategies.

Areas of Focus

- Develop effective and practical intervention strategies which result in quantifiable Salmonella and Campylobacter reduction at the breeder, hatchery, grow-out, and processing levels.
- Develop cost-effective and practical methods to quantify the impact of Salmonella and Campylobacter control interventions in the field.
- Evaluate interventions (e.g., vaccination, pro-prebiotics, immune modulators, etc.) and develop strategies for breeder and commercial turkeys and chickens to reduce or eliminate Salmonella and Campylobacter of bird origin in the processing plant and final products.
- Evaluate the ecology and survivability of Campylobacter throughout production to facilitate improved control strategies.
- Develop effective Campylobacter vaccines.

Research Questions

- Does Campylobacter transmission from hens to the progeny occur due to eggshell contamination or true vertical transmission?
- Can the molecular epidemiology of Salmonella serotypes in poultry help determine epidemiologic associations and shared sources?

Proposal Submission

Researchers should submit only a maximum two-page pre-proposal summary that describes the parts of the objectives they wish to address and what they propose to do. A title, the researcher's name, affiliation, and email address should be included in the pre-proposal. Details of procedures or specifics of the budget should not be included in the pre-proposal submission. Pre-proposals should be submitted in Microsoft Word format to Geraldine Dew at gdew@uspoultry.org . **DEADLINE FOR PRE-PROPOSAL SUBMISSION IS NOVEMBER 1, 2021.**

The outcome of the pre-proposal review will be one of three responses from USPOULTRY:

- Send a full research proposal for consideration.
- Please make specific modifications in what you are proposing and send a full proposal.
- Do not send a full research proposal.

Full proposals will follow established USPOULTRY guidelines as seen at www.uspoultry.org . Funds can be used for graduate students, technicians, research supplies, and work and meeting travel. Funds cannot be used for professional (faculty or postdoc) salaries or equipment purchase. Up to 15% overhead is allowed. No budget, including overhead, may exceed \$125,000.